

Title (en)

Element with a shaft and a retaining element connected to the shaft for attaching a rod

Title (de)

Element mit einem Schaft und einem damit verbundenen Halteelement zum Verbinden mit einem Stab

Title (fr)

Élément avec une vis d'ancrage et un élément de retenue relié à la vis pour connecter une barre

Publication

EP 1316295 B1 20051012 (DE)

Application

EP 02025337 A 20021113

Priority

DE 10157969 A 20011127

Abstract (en)

[origin: DE10157969C1] Element comprises a shaft joined to a holding element for connecting a rod. The holding element has a U-shaped recess for receiving the rod. The recess has two free arms (5) at one end with an internal thread and a sealing element (9) having an external thread (8) interacting with the internal thread. The two flanks (7a, 7b) of the internal thread lie at right angles to the central axis (M) of the holding element. Preferred Features: The thread cross-section is rectangular. The sealing element has an appropriate external thread.

IPC 1-7

A61B 17/70

IPC 8 full level

A61B 17/58 (2006.01); **A61B 17/70** (2006.01); **A61B 17/86** (2006.01); **F16B 7/18** (2006.01); **F16B 23/00** (2006.01); **F16B 33/02** (2006.01); **F16B 35/06** (2006.01); **F16B 37/04** (2006.01); **F16B 37/12** (2006.01); **F16B 43/02** (2006.01)

CPC (source: EP KR US)

A61B 17/7032 (2013.01 - EP US); **A61B 17/7035** (2013.01 - EP US); **A61B 17/7037** (2013.01 - EP US); **A61B 17/7049** (2013.01 - EP US); **A61B 17/86** (2013.01 - KR); **F16B 7/18** (2013.01 - EP US); **F16B 33/02** (2013.01 - EP US); **F16B 35/06** (2013.01 - EP US); **F16B 37/125** (2013.01 - EP US); **F16B 43/02** (2013.01 - EP US)

Cited by

CN103083077A; US10441325B2; US10154859B2; US10709479B2; US9808281B2; US10993739B2; US11006978B2; US10098666B2; US10888360B2; US11389213B2; US10136923B2; US10898234B2; US11357550B2; US11819247B2; US10405892B2; US11484348B2; US9974571B2; US11129648B2; US11890037B2; US9848918B2; US10105163B2; US10595908B2; US11020152B2; US11432850B2; US9872710B2; US10357287B2; US11134992B2; US11812998B2

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

DE 10157969 C1 20030206; DE 50204516 D1 20051117; EP 1316295 A2 20030604; EP 1316295 A3 20041201; EP 1316295 B1 20051012; JP 2003220073 A 20030805; JP 4303942 B2 20090729; KR 100776779 B1 20071119; KR 20030043723 A 20030602; US 10792075 B2 20201006; US 2003100896 A1 20030529; US 2012328394 A1 20121227; US 2015005825 A1 20150101; US 2016220282 A1 20160804; US 8828060 B2 20140909; US 9895173 B2 20180220

DOCDB simple family (application)

DE 10157969 A 20011127; DE 50204516 T 20021113; EP 02025337 A 20021113; JP 2002342605 A 20021126; KR 20020073767 A 20021126; US 201213483792 A 20120530; US 201414327434 A 20140709; US 201615094784 A 20160408; US 30605702 A 20021127